

Abstract

Cutting machines with high-speed safety systems, and firing subsystems used in high-speed safety systems, are disclosed. The cutting machines may include a detection system adapted to detect a dangerous condition between a cutting tool and a person. A reaction system performs a specified action, such as stopping the cutting tool, upon detection of the dangerous condition. A fusible member or explosive may be used to trigger the reaction system to perform the specified action. A firing subsystem may be used to fuse the fusible member or fire the explosive upon detection of the dangerous condition.